

1. Lab Selection

- We are requested that the lab be certified in both alpha and gamma spec analysis if possible
- The lab should be capable of pulverizing and homogenizing slag/rock samples

2. Radionuclide List

- Bi-212, Bi-214, Cs-137, K-40, Pb-212, Pb-214, Pa-234m, Ra-226, Ra-228, Th-228, Th-230, Th-232, Th-234, Tl-208, U-233/234, U-235/236, U-238
- Lyndsey, please let us know if there are any missing or any other information needs to be included with this list request

3. Chain of Custodies

- The written sample prep and procedures given to the lab must be referenced in the Chain of Custody
- The matrix should be described as soil/rock/slag.

4. Sample Preparation Procedures

- EPA will send one sample one-16 ounce Jar of sample sent to lab from NFB & HTC Sites.
- We are requesting that they run our jar for an “as is” gamma spec initially prior to any sample preparation.
- The entire contents of that container will then be pulverized and homogenized.
 - **No rocks should be removed.** We do not want the material going through a sieve. Removing the rock/slag will cause the sample to not be representative of what is actually at the site. If the material is pulverized and homogenized, that should be sufficient.
 - From that jar, appropriate sample amount be transfer to another container for 21 day ingrowth and then gamma spec.
 - Then the alpha spec aliquot will be taken from this pulverized jar content for analysis.